

A new innovation in porta-toilets

A PLEASANT ALTERNATIVE TO TRADITIONAL PORTA LOO TOILETS & PIT LATRINES



Traditional portable toilets / informal toilets typically have 2 main draw-backs:-

- Frequency of emptying – these typically need to be emptied after 4 – 7 days of use at a cost.
- Unpleasant user experience – the odours which are generated by these toilets are either chemically unpleasant due to the harsh nature of the products used to suppress biological odour, or due to the breakdown of the organics from the human waste.

PQ Green Eco Porta Toilet addresses these concerns by using a combination of biochemical & mechanical filtration to allow for an odour free solution, which also reduces the frequency of emptying the toilet.

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The toilet uses a novel mechanism where clean, treated water is used to provide a flush function with a traditional cistern & the solids & liquid waste generated are converted into carbon dioxide & water.

Fluids can be pumped periodically from the underground storage with the built in pump & t-piece to remove odour free, safe water from the system, while keeping the solids back for bacterial treatment & digestion.

Tests on the water coming from the PQ Porta Loo show a reduction in C.O.D to be 95% lower than municipal specification, & E. Coli bacteria count to be 0 i.e. no harmful pathogens contained in the treated water.

An additional benefit in that the waste generated is not toxic & can be disposed of to a municipal sewerage plant without the need to neutralise the toxic chemicals like formaldehyde or glutaraldehyde should the need arise to pump the solids slurry.

The Eco Porta Toilet is manufactured from recycled plastics including HDPE, PP en LDPE which reduces the environmental burden of waste plastics & contributes to an overall waste reduction strategy which can be used as a marketing point for environmentally conscious consumers.

The Eco Porta Toilet can be customised to client requirements in terms of:-

- Flush mechanism – i.e. by mounting a cistern in the toilet, the recycled, treated water is used for the flushing. Due to the bacterial & mechanical action of the Eco Toilet, the flush water is odour free & provides a familiar experience in the toilet in terms of flushing.
- Dosing/treatment of biologicals – this can be automated to dose a set amount of biological treatment product, thus taking out the human element. Only maintenance required is to replace the 5 L jerry can on a monthly basis.
- Fully independent system removing the need for electricity supply for the pump. We use a solar system, with 120 amp hour deep cycle gel battery to operate the pump, peristaltic biological dosing pump & LED light for safe use at night. This allowing for 24/7 availability of the Eco Porta Toilet.
- A stripped down, basic solution is available, where a manual operated pump is used for flushing/circulation of the processed water.